IV. Application

A. Applying Graphs

- Click on the "The Most Intense Hurricanes in the US 1900-1996" site.

1. Using the graphs you made in part II, determine the approximate maximum sustained wind speed of the following hurricanes.

   a. Florida Keys(#1) = _____ miles per hour

   b. Donna (#6) = _____ miles per hour

   c. Allen (#18) = _____ miles per hour

   d. Connie (#59) = _____ miles per hour

2. Using the graphs you made in part II, determine the approximate storm tide of the following hurricanes.

   a. Florida Keys(#1) = _____ feet

   b. Donna (#6) = _____ feet

   c. Allen (#18) = _____ feet

   d. Connie (#59) = _____ feet

   e. Camille (wind speed 230 miles per hour) = _____ feet

3. What difference does the timing of the tide make on the damage done by a hurricane?

_____

_____

_____

4. Describe the types of damage that would happen if a hurricane with an intensity of 3 on the Saffir-Simpson Scale hit where you live.

_____

_____

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- Click "Back" until you get back to the OAR Hurricanes site.

V. Enrichment

A. Hurricane Induced Building Considerations

1. Research the change in construction regulations in Florida due to the effects of hurricane Andrew in 1992.

2. Brainstorm about the type of housing that would best weather a hurricane.

B. El Nino Effects on Hurricanes

- You can do this section only if you have completed the El Nino activity.

- Read the following two questions before going to the sites so you know what to look for.

1. Explain the effect El Nino has on the Atlantic and Pacific hurricane seasons.

2. What effect on the number of hurricanes should El Nino have had in 1997 - 1998?
   - Click on the 1997 storm tracks for the Eastern Pacific site (a severe El Nino year).
   - Click on the 1995 storm tracks site for the Eastern Pacific (a non El Nino year).

- Click "Back" until you get back to the OAR Hurricanes site.

C. Terminology

1. Research the meaning of "Willie - Willie" in Australia.

D. Related Web Sites

1. Hurricane Hunters
   http://www.hurricanehunters.com
2. NOAA Hurricane Hunters
   http://www.nc.noaa.gov/aoc.html
3. National Hurricane Center
   http://www.nhc.noaa.gov
4. JSU's Tropical Cyclone Products
   http://santa.jsums.edu/tropsit.html
5. Hurricane and Tropical Storm Tracking
   http://hurricane.terrapin.com
6. Hurricane and Natural Disasters Brochures
   http://www.aoml.noaa.gov/general/lib/hurricbro.html
7. National Weather Service Hurricane page
   http://www.nws.noaa.gov/om/hurrbro.htm